

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: Jeffrey S. Smith
CHENG HUI ET AL	)	
	:	Group Art Unit: 2624
Application No.: 10/722,348	)	
	:	Confirmation No: 4739
Filed: November 25, 2003	)	
	:	
For: METHOD AND APPARATUS FOR	)	
MEASURING QUALITY OF	:	Date: June 20, 2007
COMPRESSED VIDEO SEQUENCES	)	
WITHOUT REFERENCES	:	

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir/Madam:

In order to comply with the duty of disclosure under 37 C.F.R. § 1.56, transmitted herewith is an Information Disclosure Statement (IDS) in connection with the above-identified patent application. This IDS complies with the requirements under 37 C.F.R. § 1.98 and is being submitted pursuant to:

- ☐ 37 C.F.R. § 1.97(b), wherein the IDS is being offered for consideration in a:
- ☐ national application, within three (3) months of the application filing date of the national application or before the mailing date of a first Office Action on the merits.
  - ☐ international applications, within three (3) months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 or before the mailing date of a first Office Action on the merits.

☐ a Request for Continued Examination (RCE) under § 1.114, before the mailing date of a first Office Action on the merits

☒ 37 C.F.R. § 1.97(c), wherein the IDS is being offered for consideration after the mailing date of a first Office Action on the merits or after the filing of an RCE under 37 C.F.R. § 1.114, but before the mailing date of a final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311 and, accordingly, is accompanied by:

☒ the fee of \$180.00 set forth under 37 C.F.R. § 1.17(p)

or

☐ a Statement under 37 C.F.R. § 1.97(e):

☐ see attached Statement under 37 C.F.R. § 1.97(e).

☐ The undersigned attorney hereby states that each item information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this IDS.

☐ 37 C.F.R. § 1.97(d), wherein the IDS is being offered for consideration after the mailing date of a final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311, but before, or simultaneously with, the payment of the Issue Fee and, accordingly, is accompanied by:

☐ the fee of \$180.00 set forth under 37 C.F.R. § 1.17(p)

and

☐ a Statement under 37 C.F.R. § 1.97(e):

☐ see attached Statement under 37 C.F.R. § 1.97(e).

☐ The undersigned attorney hereby states that each item information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this IDS.

**Fees & Method of Payment**

☐ There is no fee required for submission of this IDS.

☒ The aforementioned selected fee is required for submission of this IDS.

- ☐ Fee payment(s) submitted via EFS-Web.
- ☒ The Commissioner is hereby authorized to charge Deposit Account No. 50-1358.
- ☒ The Commissioner is hereby authorized to charge any deficiency in fees, or credit overpayment of the same, to Deposit Account No. 50-1358.

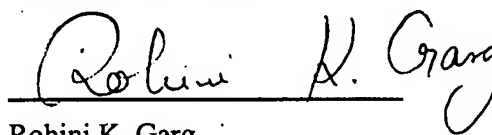
The Examiner's attention is kindly directed to the documents identified on the enclosed/attached Form PTO/SB/08. Copies of U.S. Patents and/or Patent Application Publications are not required pursuant to 37 C.F.R. § 1.98 and, therefore, have not been provided in connection with this submission. Copies of all other references, if any, are enclosed/attached.

It is respectfully requested that these references be fully considered by the U.S. Patent and Trademark Office during the examination of this application and printed on any patent which may issue thereon. Accordingly, Applicant(s) kindly requests that a copy of Forms PTO/SB/08, as considered and initialed by the Examiner, be returned with the next office communication.

An early and favorable action is respectfully requested.

Respectfully submitted,

Lowenstein Sandler PC  
65 Livingston Avenue  
Roseland, NJ 07068

A handwritten signature in cursive script, reading "Rohini K. Garg", is written over a horizontal line.

Rohini K. Garg  
Agent for Applicants  
Reg. No. 45,272

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10722348	
	Filing Date		2003-11-25	
	First Named Inventor	Cheng HUI		
	Art Unit	2624		
	Examiner Name	Jeffrey S. Smith		
	Attorney Docket Number	18703-460		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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Application Number		10722348
Filing Date		2003-11-25
First Named Inventor	Cheng HUI	
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Attorney Docket Number	18703-460	

/JSS/	1	A. K. G. Worner, "Real-time quality monitoring of compressed video signals," SMPTE Journal, pp. 373-377, Sept. 2002.	<input type="checkbox"/>
/JSS/	2	J.E. Caviedes and J. Jung, "No-reference metric for a video quality control loop," Proc. of World Multi-Conference on Systems, Cybernetics and Informatics Broadcasting Convention, v. 13, no. 2, pp. 290-295, Orlando, FL, July 2001.	<input type="checkbox"/>
/JSS/	3	H. R. Wu and M. Yuen, "A generalized block-edge impairment metric for video coding," IEEE Signal Process. Lett. v. 4, no. 11, pp. 317-320, 1997.	<input type="checkbox"/>
/JSS/	4	P. Gastaldo, R. Zunino and S. Rovetta, "Objective assessment of MPEG-2 video quality," Journal of Electronic Imaging, v. 11, no. 3, pp. 265-274, July 2002.	<input type="checkbox"/>
/JSS/	5	J. Lubin, "The use of psychophysical data and models in the analysis of display system performance," Digital Images and Human Vision, pp. 163-178, Cambridge: MIT Press, 1993.	<input type="checkbox"/>

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**EXAMINER SIGNATURE**

Examiner Signature	/Jeffrey Smith/	Date Considered	08/06/2007
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10722348
Filing Date	2003-11-25
First Named Inventor	Cheng HUI
Art Unit	2624
Examiner Name	Jeffrey S. Smith
Attorney Docket Number	18703-460

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Rohini K. Garg/	Date (YYYY-MM-DD)	2007-06-20
Name/Print	Rohini K. Garg	Registration Number	45,272

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.